



Narrowband Multiservice Access Platform

Total Access 1500

Product Features

- POTS, specials, and data supported
- Up to 96 2-wire interfaces
- Compact (2U) mounting for crowded COs or RTs
- Fully redundant commons
- TR-08 signaling fully compatible with SLC-96
- Up to five times as dense as a D4 channel bank when used for specials
- TL1 interface to NMA over X.25 and TCP/IP
- SNMP management
- Integrated digital and metallic test access
- Mechanized Loop Testing (MLT)
- Redundant power feeds
- NEBS Level 3 and UL 1950 compliant
- Industry-leading 10-year warranty

The ADTRAN™ Total Access® 1500 is a **carrier-class, multiservice access platform for deploying narrowband services from TDM network access**. A compact, versatile platform, Total Access 1500 integrates the functionality of many carrier products into a single high-density chassis. Total Access 1500's small footprint (2U-high mounting) makes it the perfect choice for integrated communications service providers such as ILECs, CLECs, and ISPs who need to deploy services from crowded Remote Terminals (RTs), Central Offices (COs), or Co-Location (COLO) facilities.

Total Access 1500 provides a variety of services including POTS, special services (ISDN, DDS, FXO, FXS, E&M, DPO, DPT, and PLAR), and data services. Total Access 1500 complements ADTRAN's Total Access 3000 broadband multiservice access platform, which can terminate and distribute higher bandwidth services such as SONET, DS3, HDSL, HDSL2, T1, and optical DS2. Total Access 1500 can be deployed as:

- Small Digital Loop Carrier (DLC), for a simple and effective means of deploying POTS (up to 96 lines in a 2U mounting)
- Special services delivery platform, with up to five times the density of any competing platform (D4)
- IAD, serving up to 96 customers with voice and data services

Total Access 1500 is a modular device with five common slots and 24 access slots. Common units required for operation are a Power Supply Unit (PSU), a Line Interface Unit (LIU), and a System Controller Unit (SCU). A second, redundant PSU and LIU may be deployed for added reliability. The PSU is available with an integrated ring generator providing up to 40 REN ringing capacity. The LIU can support up to four T1 interfaces and has full Time Slot Assignment (TSA) capability. This feature allows users to "steer" varied amounts of bandwidth from the network to any of the access slots, ensuring that no bandwidth is stranded. The 24 access slots accept a variety of voice and data access modules, allowing users to optimize their service for each application.

Using local or remote in-band management, service providers can provision and monitor the bank's network interface and access modules. Transaction Language 1 (TL1) protocol is used to communicate with the Telcordia™ NMA® Operation Support System (OSS) using an internal X.25 PAD or TCP/IP. An Ethernet 10BaseT connector is used for connection to SNMP networks and Telnet. ADTRAN's Total Access EMS provides a graphical user interface (GUI).

Total Access 1500 is designed for 23-inch relay racks. Full compliance with NEBS Level 3 and UL 1950 ensures maximum reliability and safety.

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TL 9000

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Narrowband Multiservice Access Platform

Total Access® System

Total Access 1500

Product Specifications

Mechanical

- **Dimensions:** 3.5 in. H X 23 in. W X 11 in. D
(8.89 cm H X 58.42 cm W X 27.94 cm D)
- **Weight:** 12 lbs. (5.44 kg) (chassis only)

Network Interfaces

- **Transport:** DS1/DSX-1
- **Capacity:** 1 to 4 T1s plus 1 protect T1 (4T1+protect)
- **Line Rate:** 1.544 Mbps +/- 75 bps
- **Physical interface:** Wire wrap
- **Framing:** D4 (SF)/ESF, TR-08
- **Line code:** AMI/B8ZS
- **Input signal:** 0 to -36 dB
- **DSO assignment:** User-selectable
- **T1 transmit timing:** Loop, local, external
- **TR-08 Support:** Single Party Ringing (SPR) and Universal Voice Grade (UVG) analog ports supported with FXS modules. CLASS® services.

Testing and Troubleshooting

- **Local:** Payload and line loopback
- **Remote:** Payload and line loopback

Network Interface Test Jacks

- **Bantam jacks:** RXMON, TXMON

Performance Monitoring

- **Error counts:** ES, SES, UAS, %, AS, %, EFSEC, alarms, and error rates
- **Reports:** NI information stored for last 24 hours (in 15-minute increments)

Electrical

- **DC power:** -40 to +56 VDC
- **Connection:** Screw terminals (A and B feed)

Regulatory Standards

- NEBS Level 3
- UL 1950
- FCC Part 15 (Class A) and Part 68

Management

Craft Interface

- Accessible from front of SCU
- **Electrical interface:** EIA-232, PC serial port, or modem
- **Physical connector:** DB-9 front

10BaseT Port

- SNMP/Telnet
- TL1

X.25

- TL1

Environmental

- **Operating temperature:** -40°C to +65°C
- **Storage temperature:** -20°C to +70°C
- **Relative humidity:** Up to 95 percent, noncondensing

Ordering Information

Equipment	Part #
Chassis and Commons	
Total Access 1500 Chassis	1180001L1
PSU/RG	1180007L1
PSU	1180007L2
LIU 4T1+Protect	1180109L1
LIU 2T1	1180009L1
Universal SCU	1180008L1
SCU COT with MLT	1180008L2
SCU RT with MLT	1180008L3
Single Access Modules	
DSO DP	1180003L1
OCU DP	1180005L1
U-BR1TE	1180020L1
U-BR1TE with Power	1180020L2
Total Reach DDS DP	1180105L1
4W TO	1180112L2
4W ETO	1180113L2
FXS/DPO/PLAR with Gain Transfer	1180114L2
FXO/DPT with Gain Transfer	1180115L2
4W DX	1180116L2
4W FXO	1180117L2
4W FXS/PLAR	1180118L2
2/4W E&M/TO	1180402L1
FXS/DPO/PLAR	1180403L1
FXO/DPT	1180404L1
FT1 DP	1180405L1
Dual Access Modules	
Dual Nx56/64	1180025L1
Dual DSO DP	1180203L2
Dual DSO DP with Test Jacks	1180203L4
Dual OCU DP	1180205L2
Dual OCU DP with Test Jacks	1180205L4
Dual FXO/DPT	1180207L2
Dual FXS/DPO/PLAR	1180208L2
Dual 4W TO	1180212L2
Dual 4W ETO	1180213L2
Dual FXS/DPO/PLAR with Gain Transfer	1180214L2
Dual 4W DX	1180216L2
Dual 4W FXO	1180217L2
Dual 4W FXS/PLAR	1180218L2
Dual EBS COT	1180430L1
Dual EBS RT	1180431L1
Dual Coin COT	1180432L1
Dual Coin RT	1180433L1
Quad Access Modules	
Quad C-POTS (FXO/DPT)	1180407L1
Quad R-POTS (FXS/DPO/PLAR)	1180408L1
Accessories	
Battery Backup System	1175044L1
Test Access Unit	1180006L1
Wallmount Swing Bracket	1180012L1
AC Power Converter/Battery Charger	1180043L2
Wallmount Stationary Brackets	1180046L1
LIU TAM	1180100L1
Access Module TAM	1180101L1
Digital Bypass	1180434L1

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